

Title (en)

SYSTEMS AND METHODS FOR FATTY ACID ALKYL ESTER PRODUCTION WITH RECYCLING

Title (de)

SYSTEME UND VERFAHREN ZUR HERSTELLUNG VON FETTSÄUREALKYLESTERN MIT RECYCLING

Title (fr)

SYSTÈMES ET PROCÉDÉS DE PRODUCTION D'ESTER ALKYLIQUE D'ACIDE GRAS DOTÉS DE RECYCLAGE

Publication

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Application

EP 20763243 A 20200225

Priority

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- US 2020019706 W 20200225

Abstract (en)

[origin: WO2020176512A1] Provided are industrial processes for producing a fatty acid alkyl ester from a natural oil feedstock or a mixed lipid feedstock, wherein the natural oil feedstock comprises a free (un-esterified) organic acid such as a free fatty acid, comprising: producing fatty acid alkyl esters using an alcoholysis reaction such as a vapor phase alcoholysis reaction or a supercritical alcoholysis reaction, wherein the alcoholysis reaction takes place under conditions comprising: mixing the natural oil feedstock and/or mixed lipid feedstock and alcohol into an alcoholysis reactor or equivalent, and then depressurizing, and then recovering the fatty acid alkyl esters from the alcoholysis reactor or equivalent by distillation in a distillation column, leaving a still pitch or distillation bottoms in the distillation column or equivalent, wherein the fatty acid alkyl esters can be removed from the alcoholysis reactor or equivalent with or without cooling of the reaction mixture prior to depressurization.

IPC 8 full level

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CPC (source: EP)

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